

Fig. 1

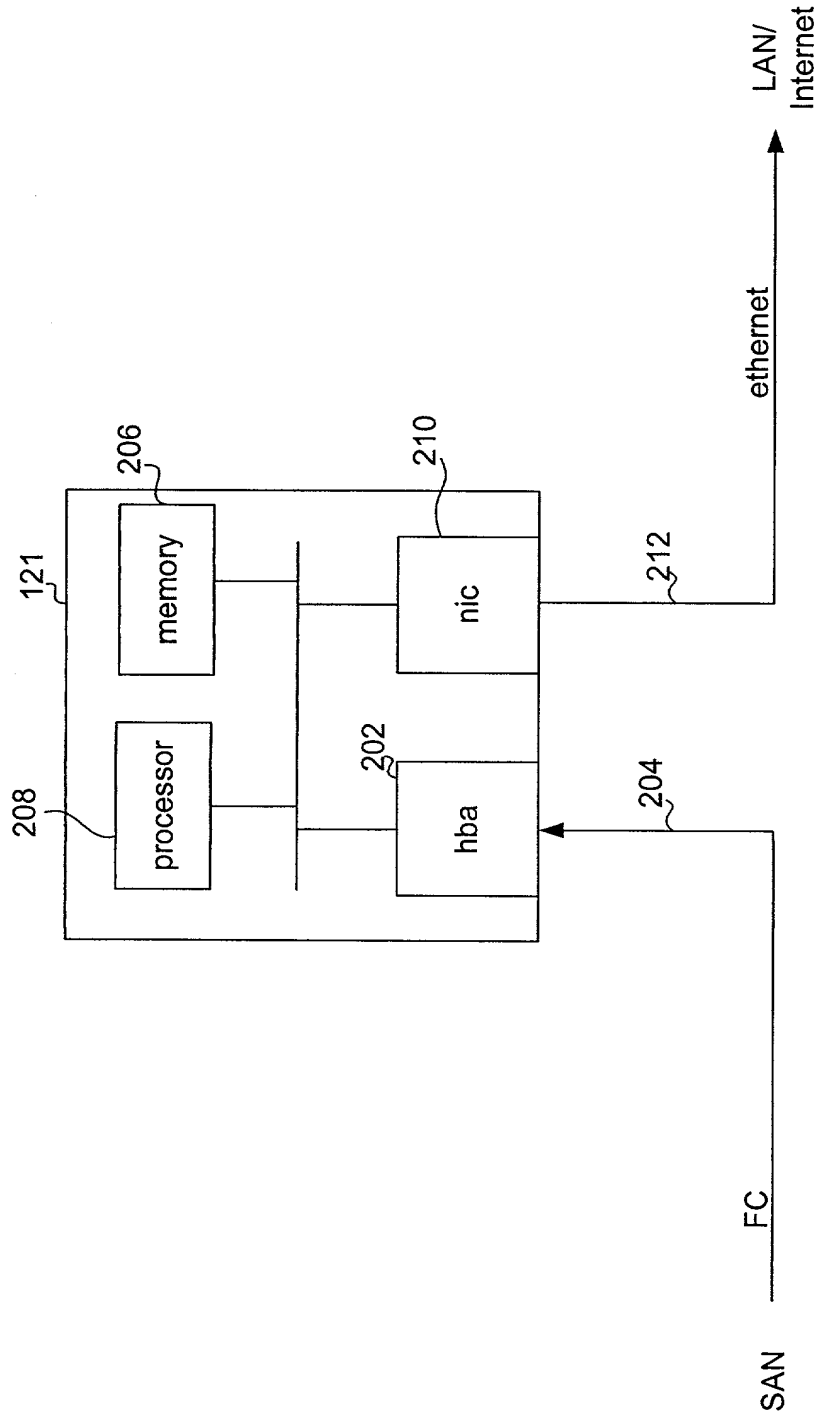


Fig. 2

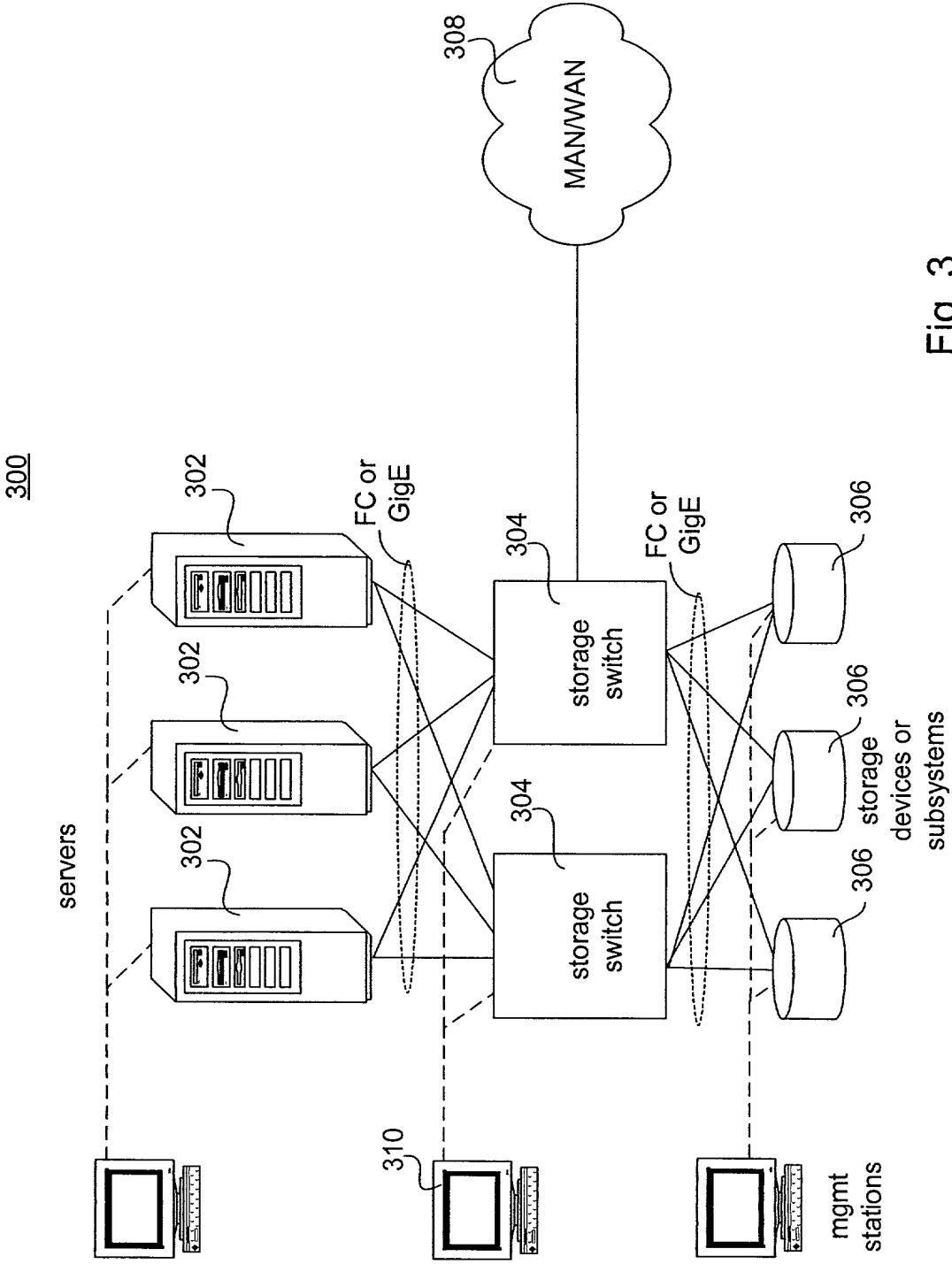


Fig. 3

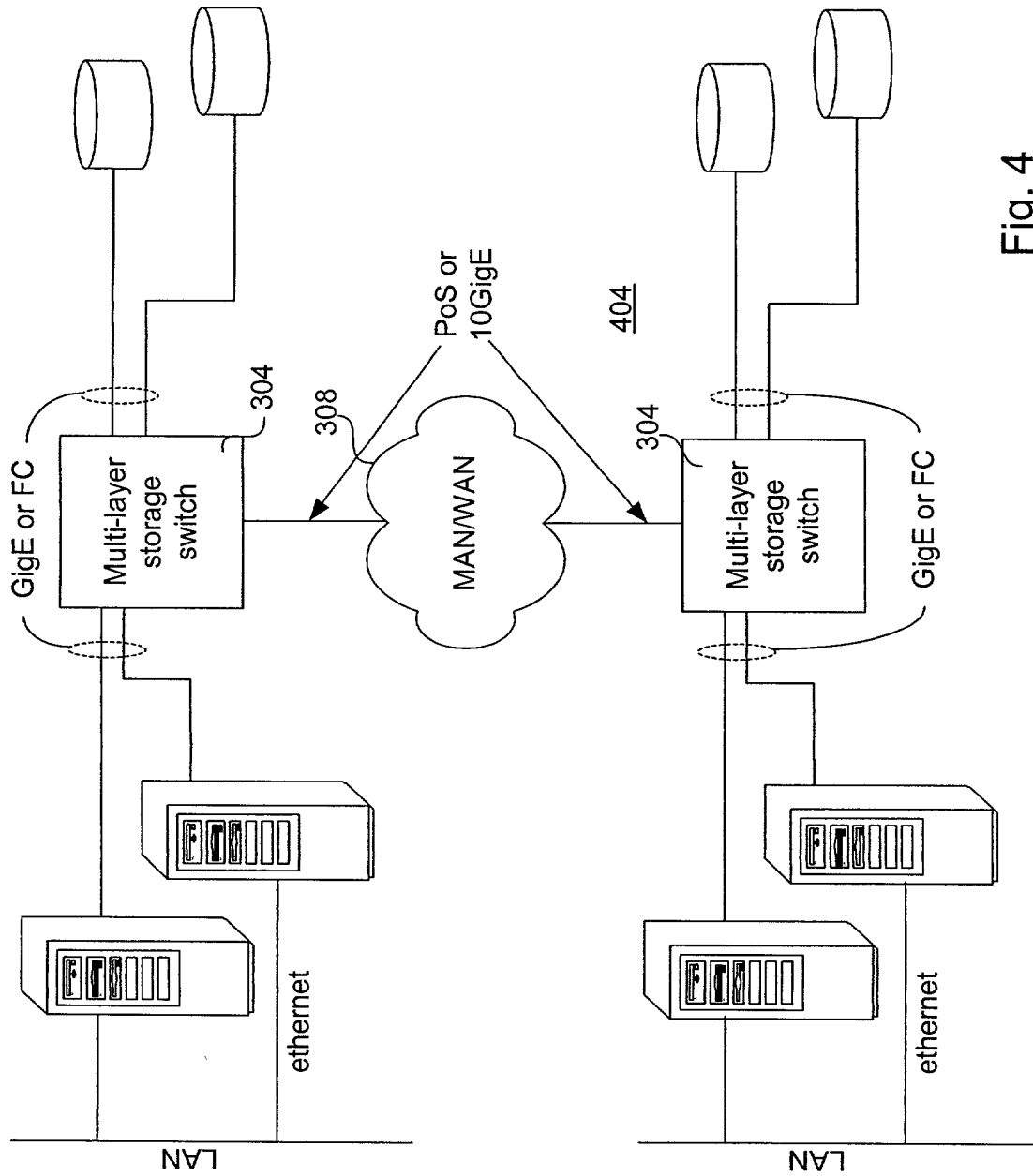


Fig. 4

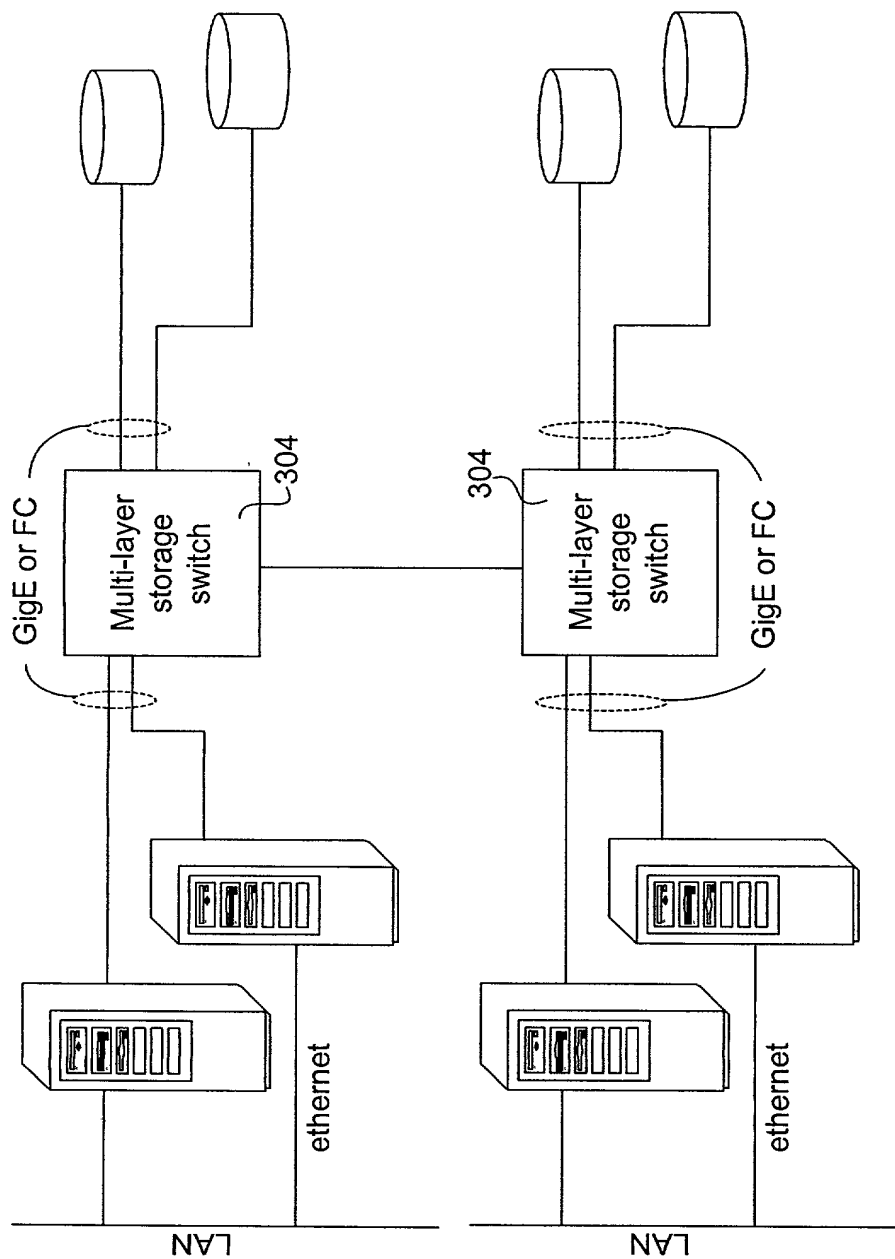


Fig. 5

304

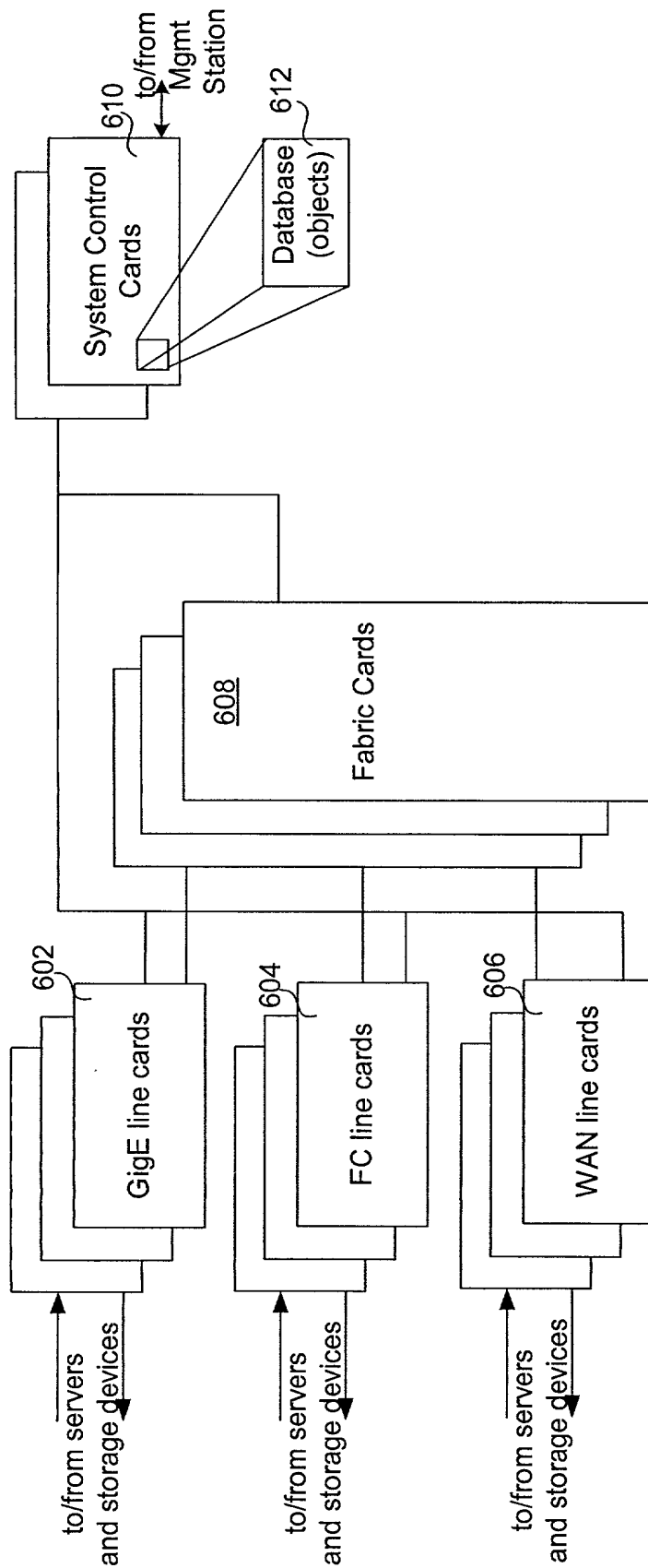
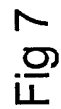


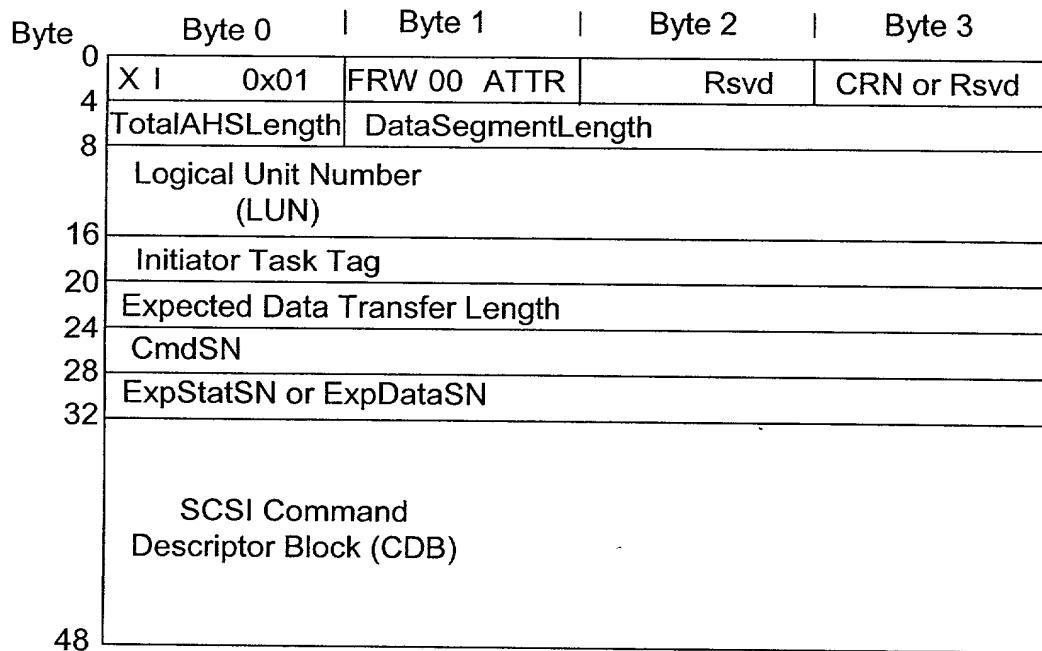
Fig. 6



VTD

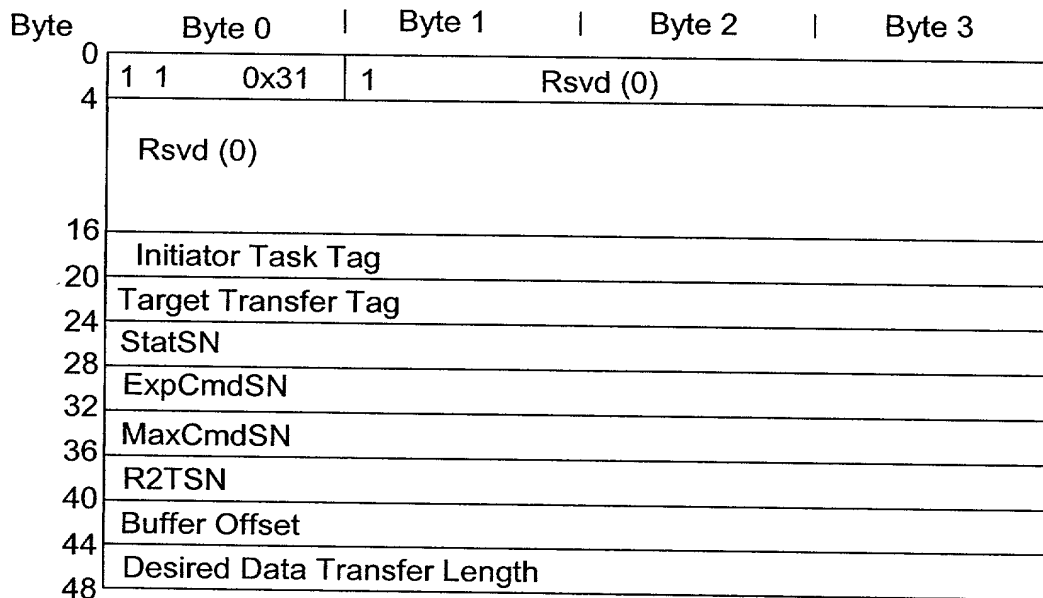
VTD ID
FlowID
Extent Descriptors (e.g., size, location)
of outstanding commands
Max # of commands
Response time
LUN
TCP control block index
S_ID/D_ID
MaxCmdSN
Total open sequences

Fig. 7a



iSCSI Command PDU

Fig. 8a



iSCSI R2T PDU

Fig. 8b

Byte	Byte 0	Byte 1	Byte 2	Byte 3
0	0 0	0x05	F	Rsvd (0)
4	Rsvd (0)	DataSegmentLength		
8	LUN or Reserved (0)			
16	Initiator Task Tag			
20	Target Transfer Tag or 0xffffffff			
24	Rsvd (0)			
28	ExpCmdSN			
32	Rsvd (0)			
36	DataSN			
40	Buffer Offset			
44	Rsvd (0)			
48	Data			

iSCSI Write Data PDU

Fig. 8c

Byte	Byte 0	Byte 1	Byte 2	Byte 3
0	1 1	0x25	F	O U S
4	Rsvd (0)	DataSegmentLength	Rsvd (0)	Status or Rsvd
8	Rsvd (0)			
16	Initiator Task Tag			
20	Rsvd (0)			
24	StatSN or Rsvd (0)			
28	ExpCmdSN			
32	MaxCmdSN			
36	DataSN			
40	Buffer Offset			
44	Residual Count			
48	Data			

iSCSI Read Data PDU

Fig. 8d

	Byte 0	Byte 1	Byte 2	Byte 3
0	1 1 0x21	1 rsv 0 u 0 u 0	Status	Response
4	Rsvd (0)	DataSegmentLength		
8	Rsvd (0)			
16	Initiator Task Tag			
20	Basic Residual count			
24	StatSN			
28	ExpCmdSN			
32	MaxCmdSN			
36	ExpDataSN or Rsvd (0)			
40	ExpR2TSN or Rsvd (0)			
44	Bidi-Read Residual Count			
48	Sense Data and Response Data (optional)			

iSCSI Response PDU
Fig. 8e

Bits Word	31-24	23-16	15-08	07-00
0	R_CTL	D_ID		
1	rsvd	S_ID		
2	TYPE	F_CTL		
3	SEQ_ID	DF_CTL	SEQ_CNT	
4	OX_ID		RX_ID	
5	RLTV_OFF			

FC Frame Header

Fig. 8f

Field Name	Description	Size
FCP_LUN	logical unit number	8 bytes
FCP_CNTL	control field	4 bytes
FCP_CDB	SCSI command descriptor block	16 bytes
FCP_DL	Data Length	4 bytes

FCP_CMND Payload

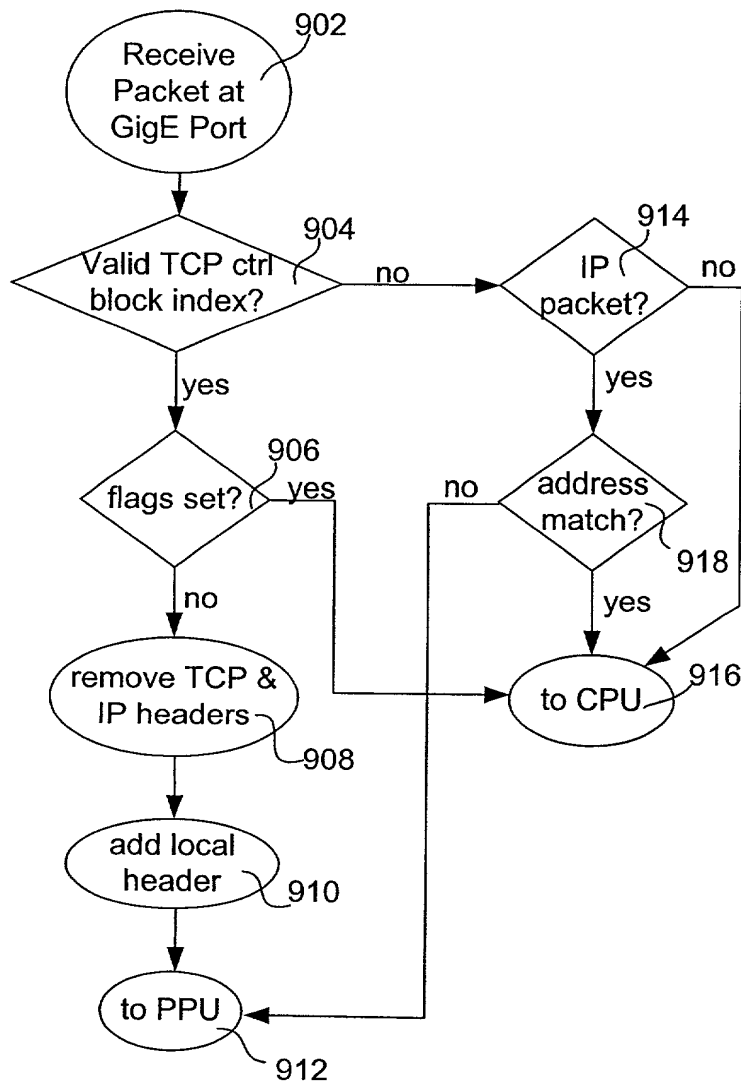
Fig. 8g

Field Name	Description	Size
DATA_RO	Relative offset of first byte of FCP_DATA IU that follows	4 bytes
BURST_LEN	length of FCP_DATA IU that follows	4 bytes
rsvd		4 bytes

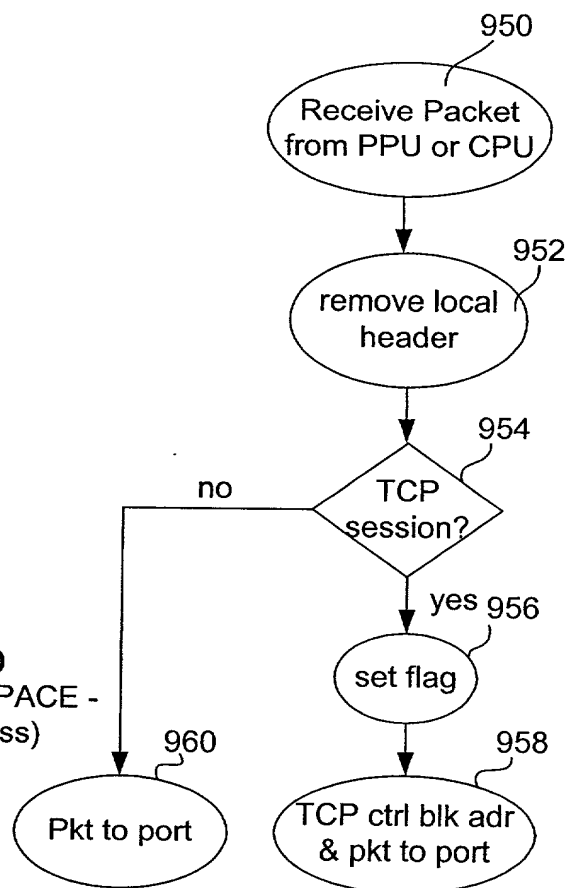
FCP_XFR_RDY Payload
Fig. 8h

Field Name	Description	Size
rsvd		4 bytes
rsvd		4 bytes
FCP_STATUS	field validity and SCSI status	4 bytes
FCP_RESID	residual count	4 bytes
FCP_SNS_LEN	Length of FCP_SNS_INFO field	4 bytes
FCP_RSP_LEN	Length of FCP_RSP_INFO field	4 bytes
FCP_RSP_INFO	FCP response info	m bytes
FCP_SNS_INFO	FCP sense info	n bytes

FCP_RSP Payload
Fig. 8i

**Fig 9a**

(Classification - PACE - iSCSI - ingress)

**Fig 9b**

(Classification - PACE - iSCSI - egress)

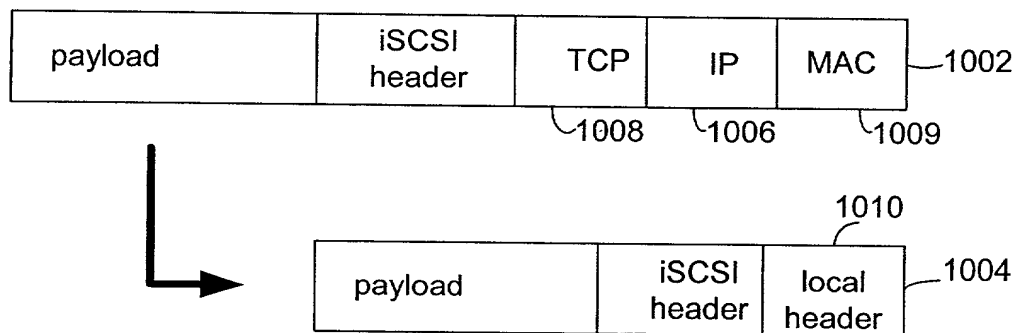


Fig. 10a

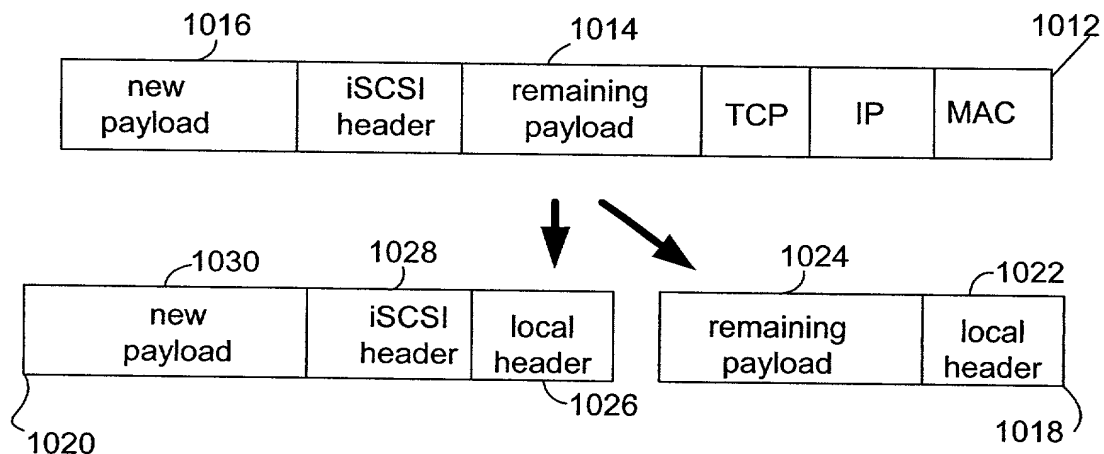


Fig. 10b

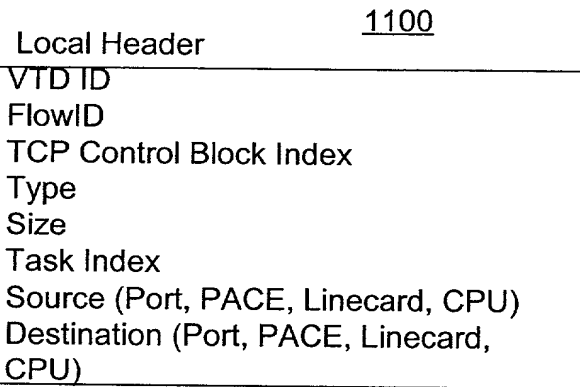
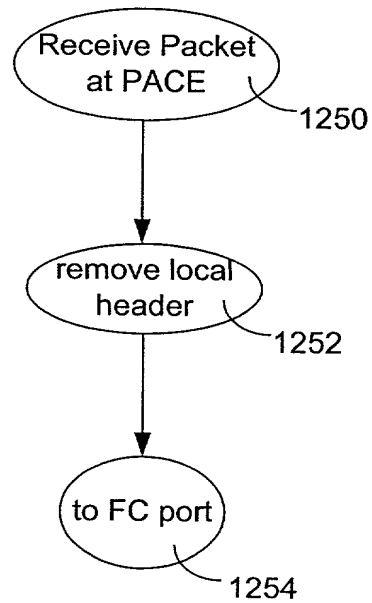
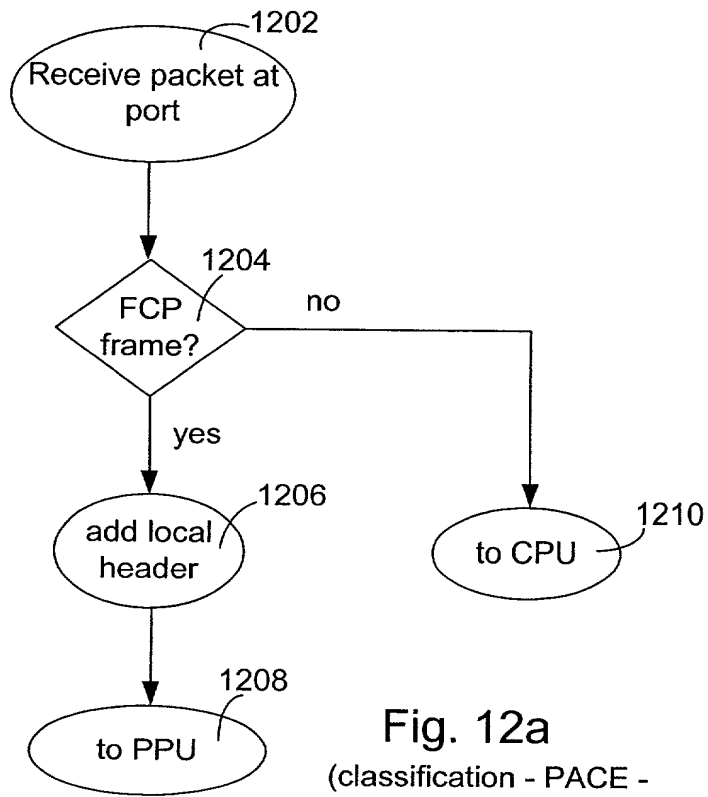
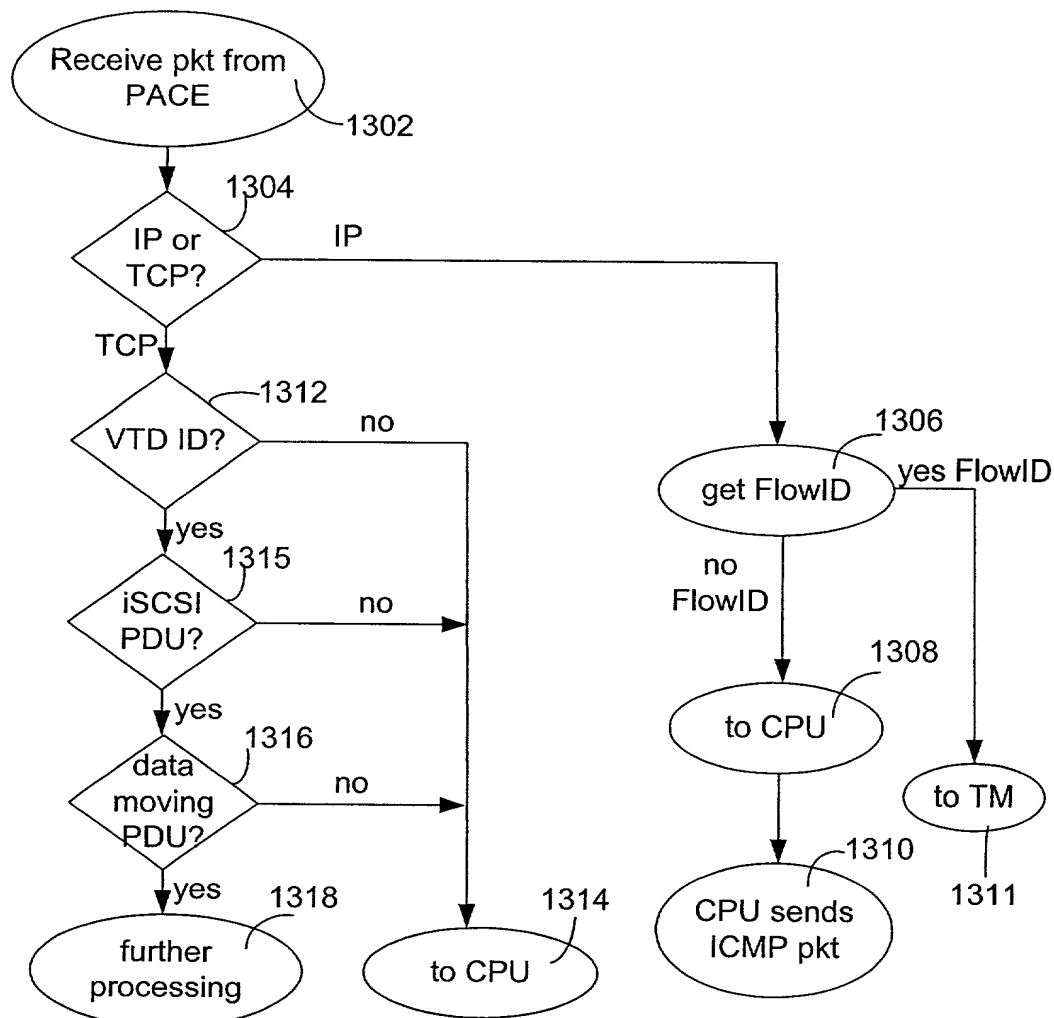
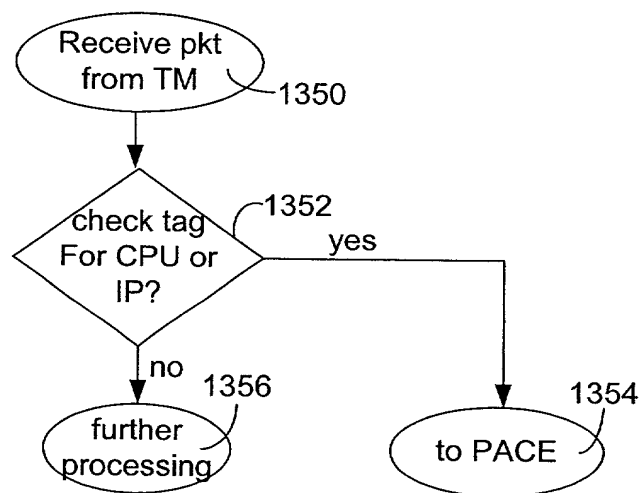


Fig. 11



**Fig. 13a**(Classification - PPU -
ingress)**Fig. 13b**(Classification - PPU -
egress)

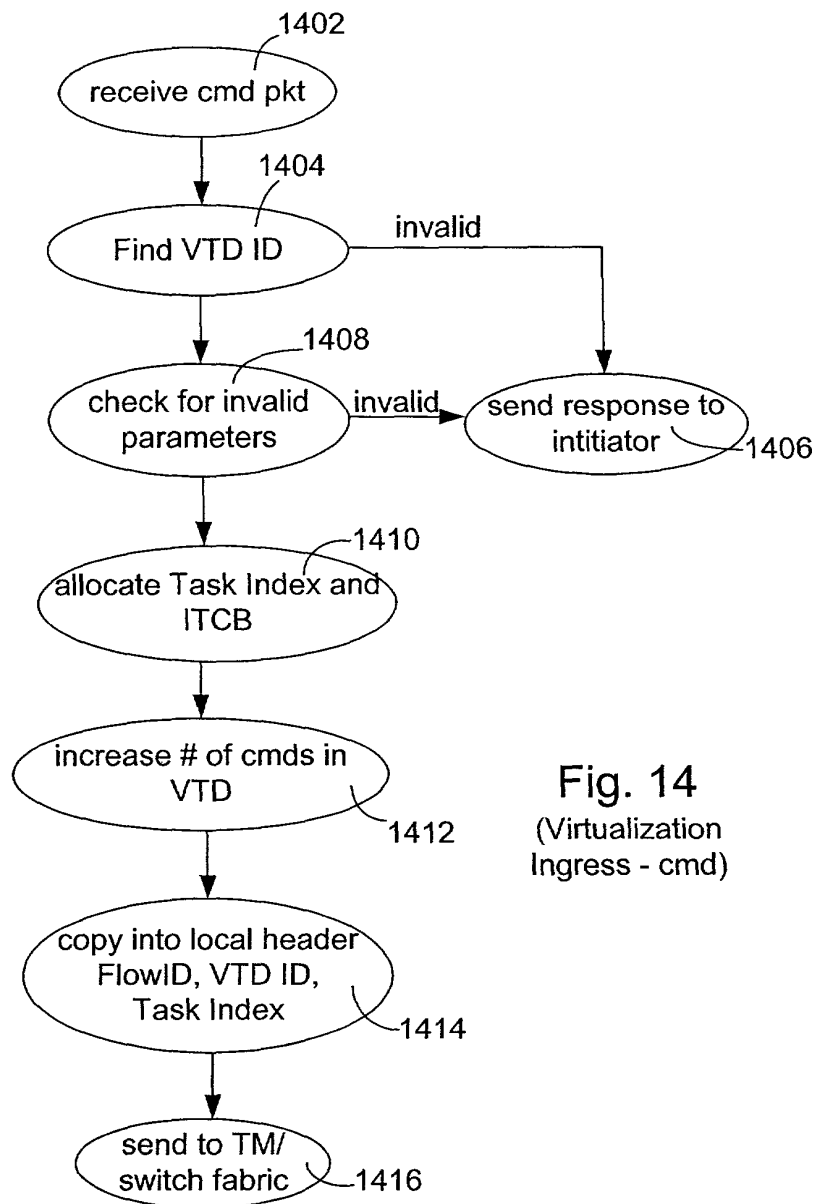


Fig. 14
(Virtualization
Ingress - cmd)

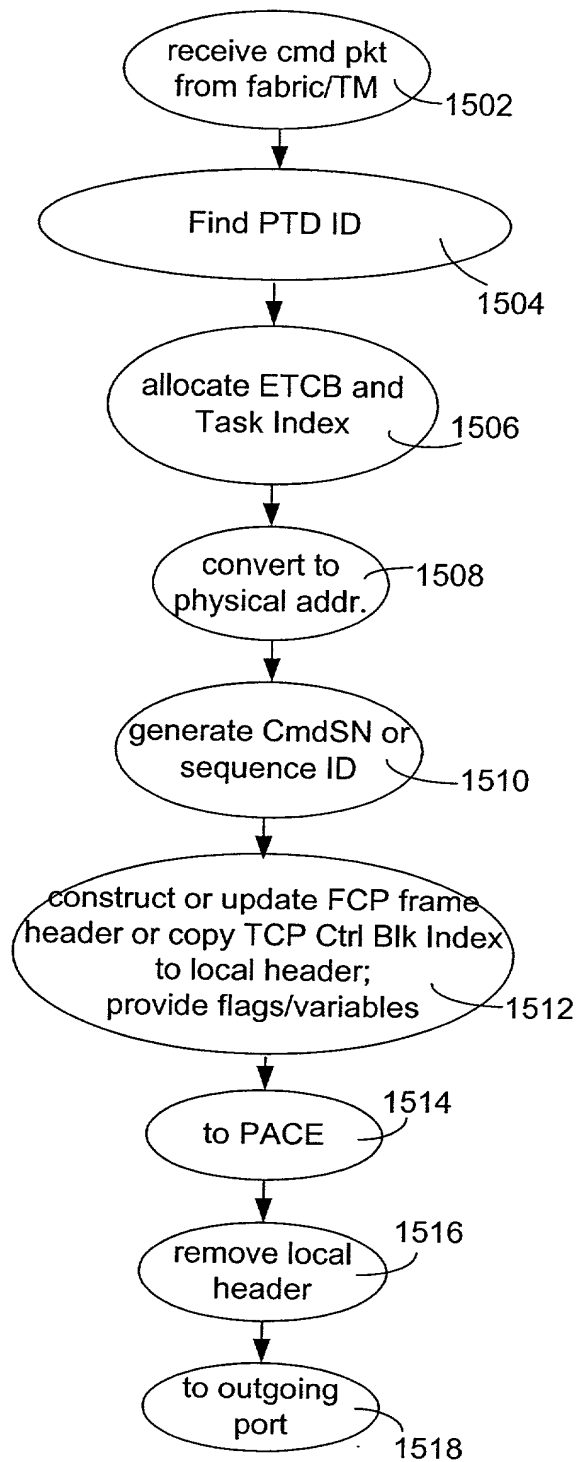


Fig. 15
(Virtualization -
Egress - cmd)

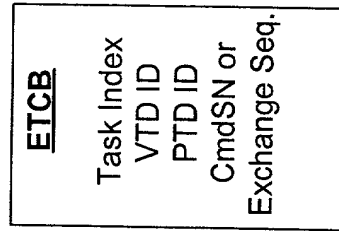
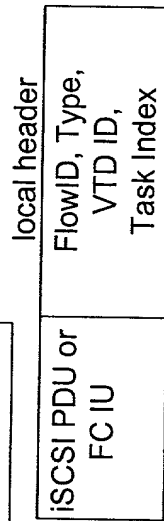
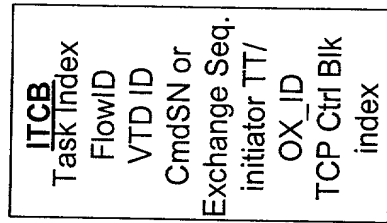
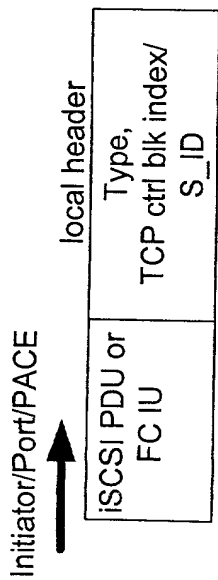
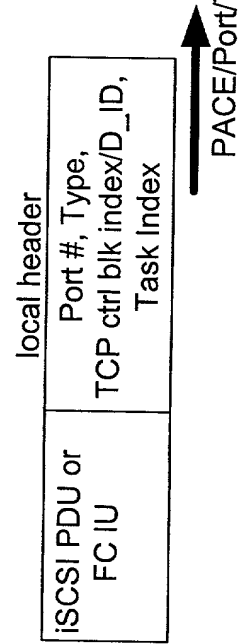


Fig. 14a
Ingress - Cmd

Fig. 15a
Egress - Cmd



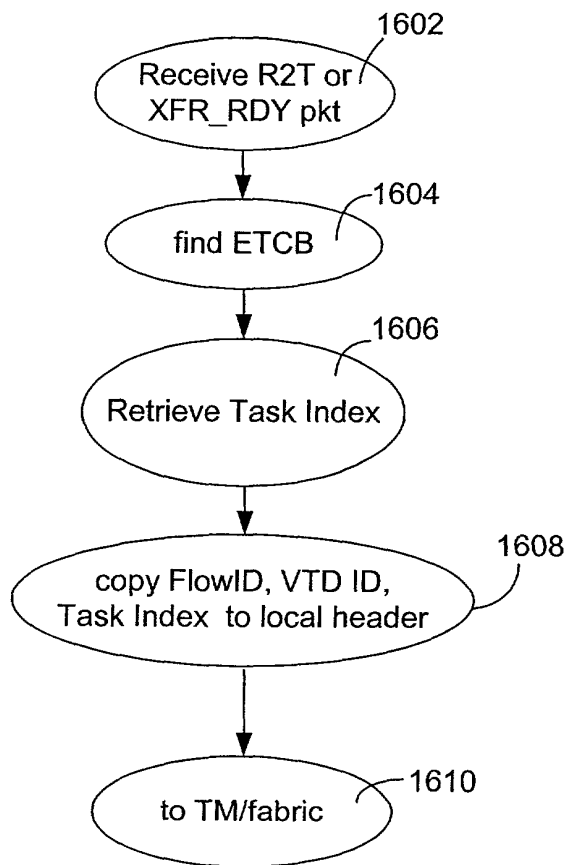
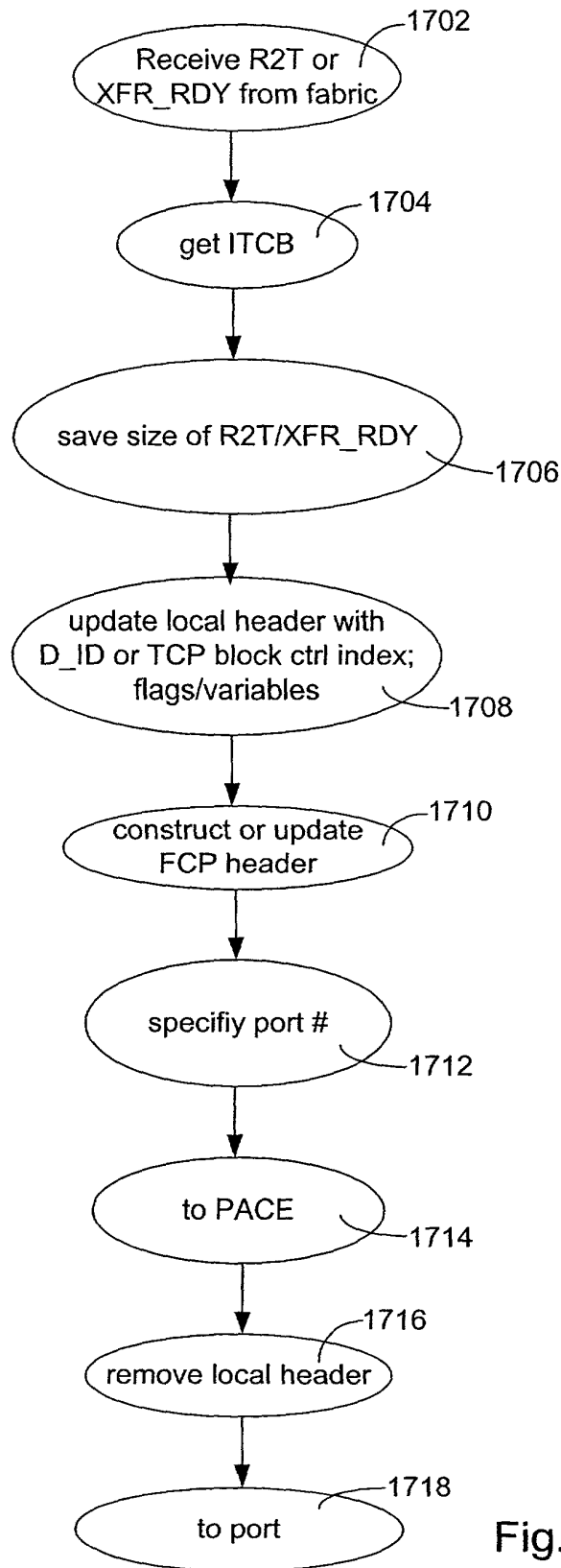
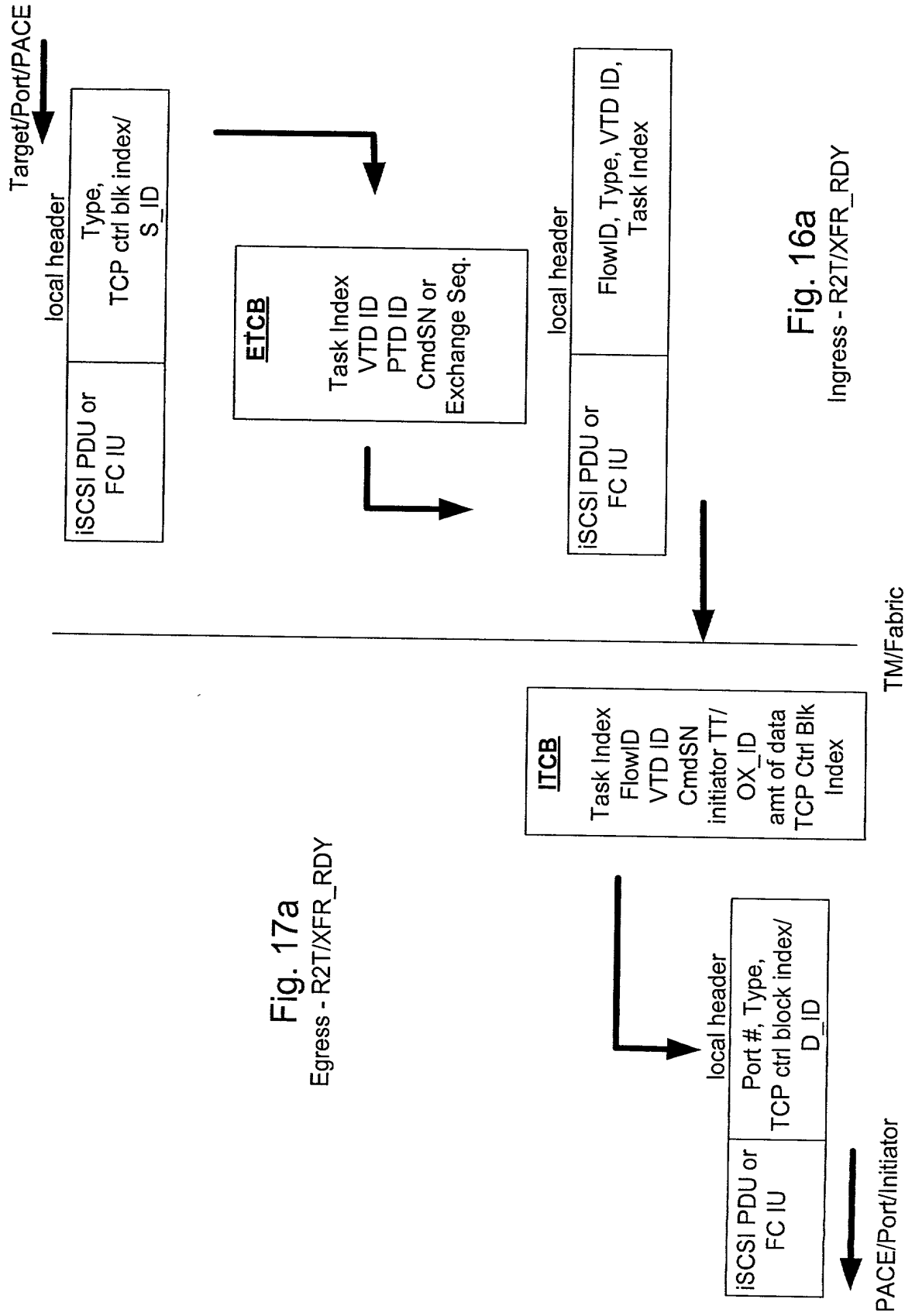


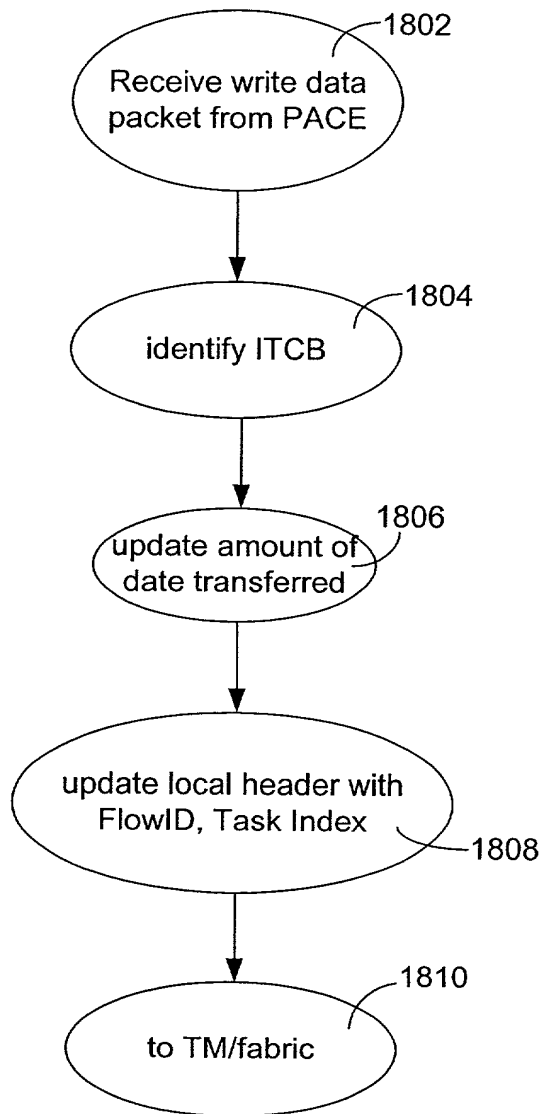
Fig. 16
(Virtualization - Ingress -
R2T/XFR_RDY)

**Fig. 17**

(Virtualization - Egress -
R2T/XFR_RDY)

Fig. 17a
Egress - R2T/XFR_RDY



**Fig. 18**

(Virtualization - Ingress -
write data packet)

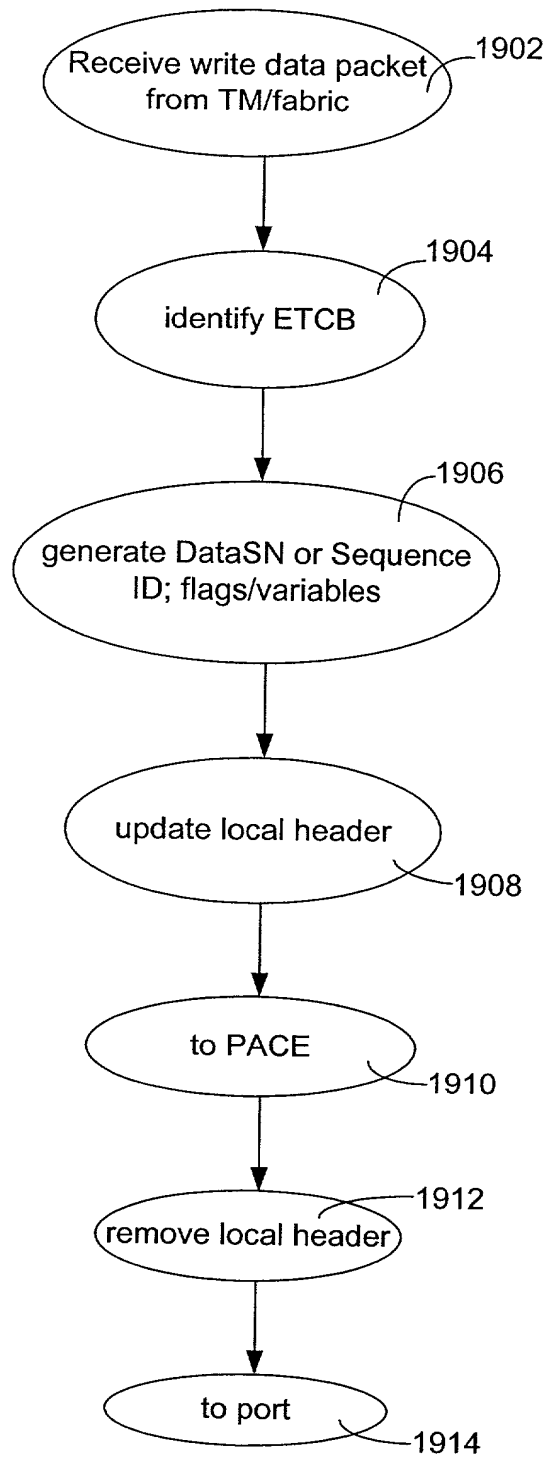


Fig. 19
(Virtualization - Egress -
write data pkt)

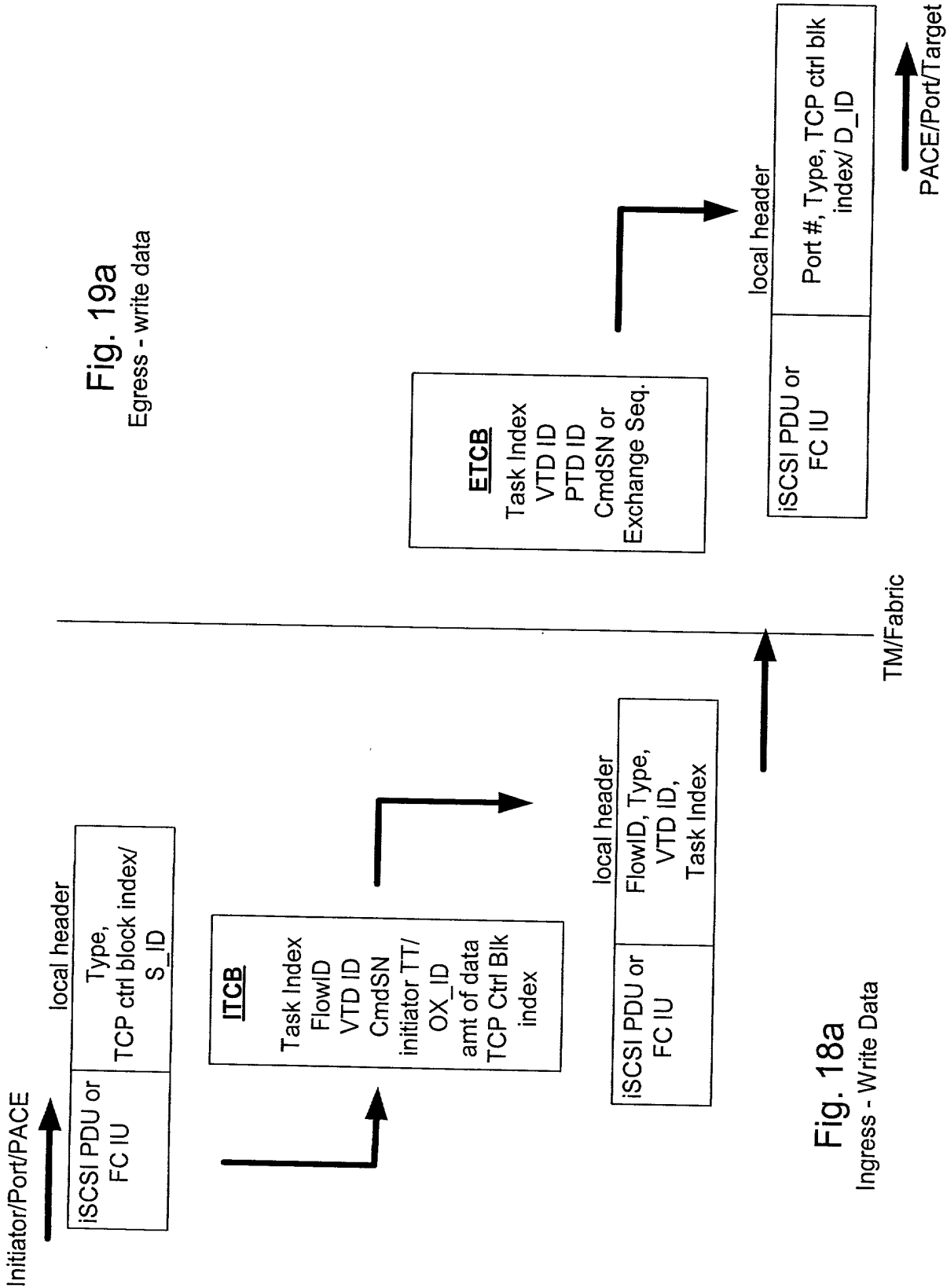


Fig. 19a
Egress - write data

Fig. 18a
Ingress - Write Data

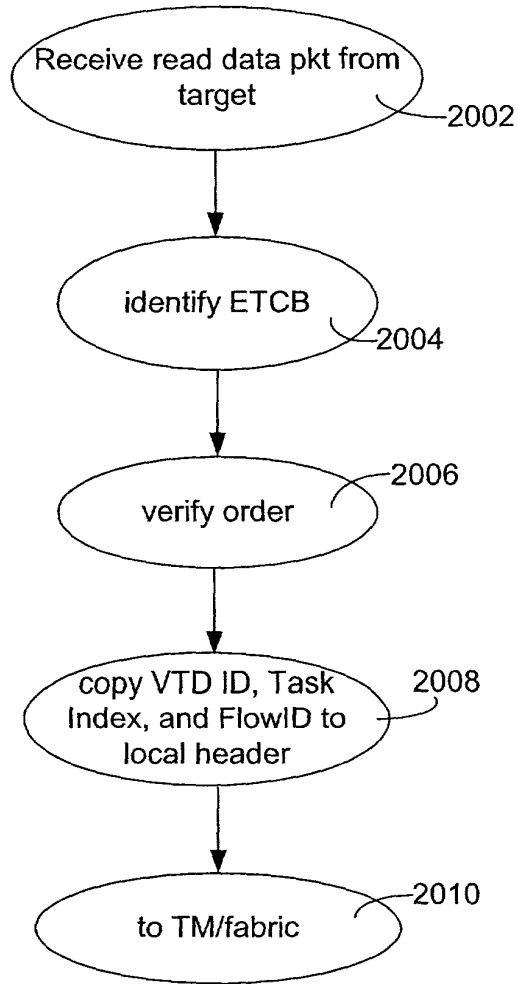


Fig. 20
(Virtualization - Ingress -
Read Data pkt)

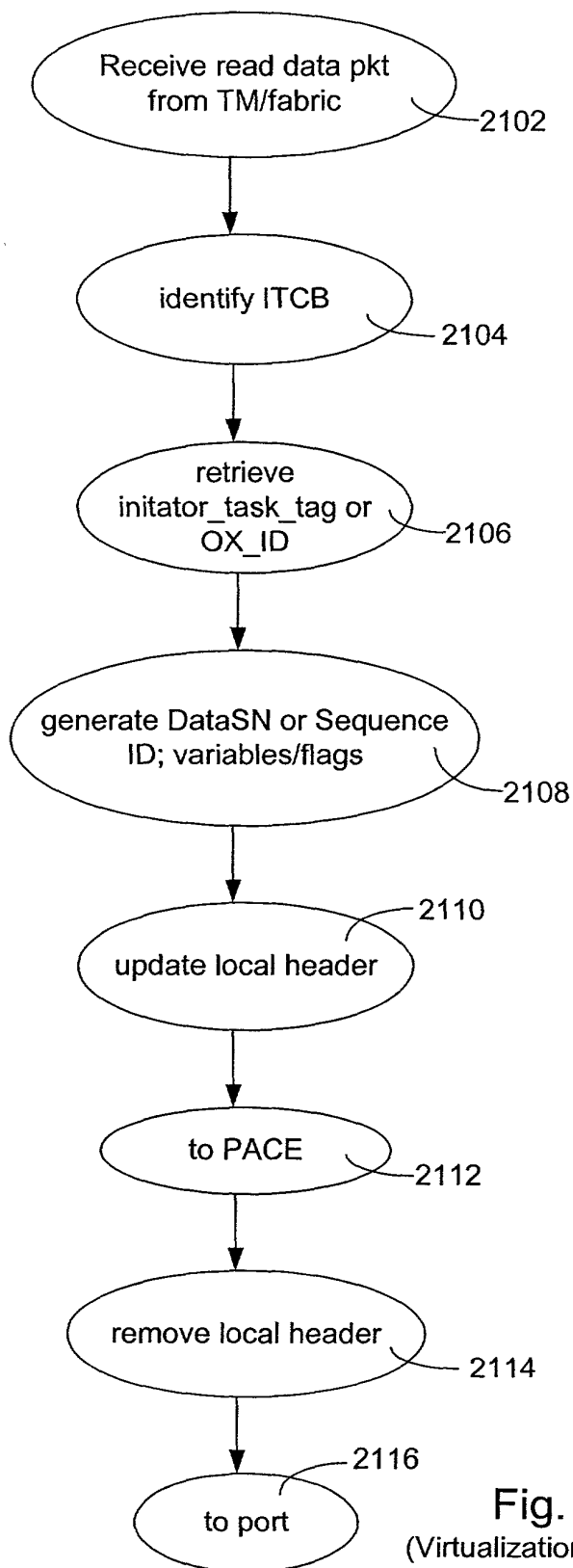


Fig. 21
(Virtualization - Egress-
Read Data pkt)

Fig. 21a
 Egress - Read Data

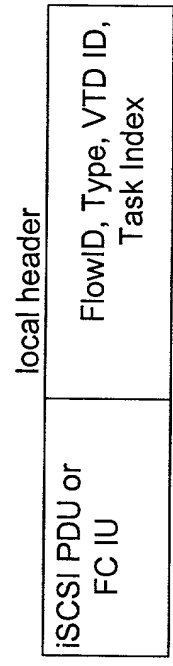
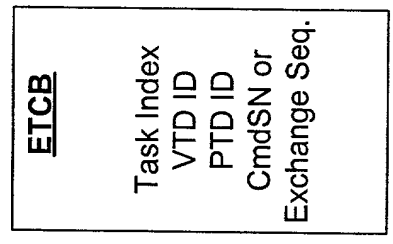
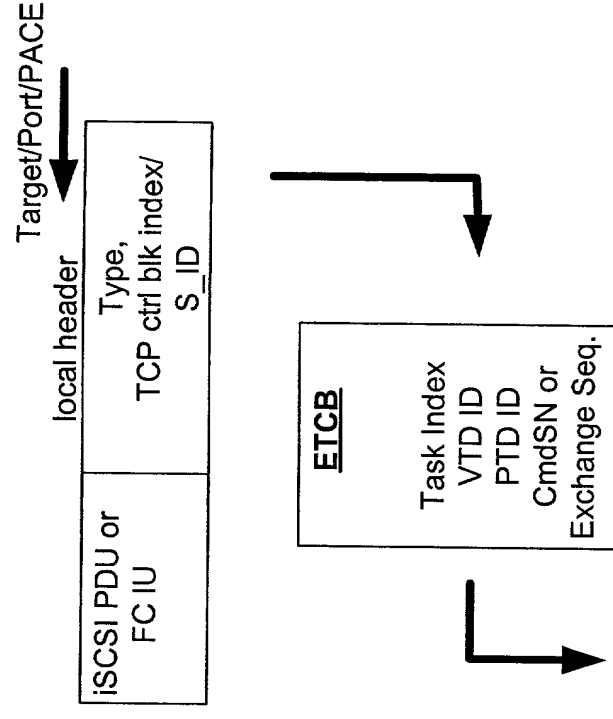
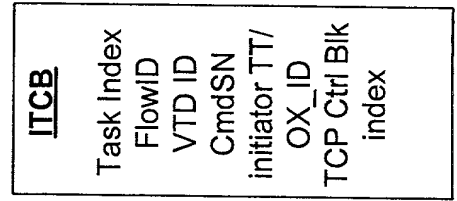
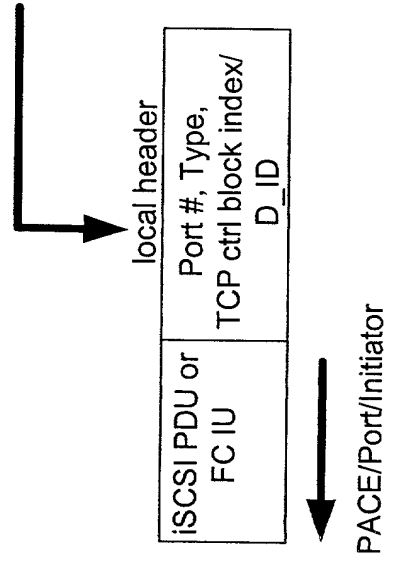


Fig. 20a
 Ingress - Read Data

TM/Fabric

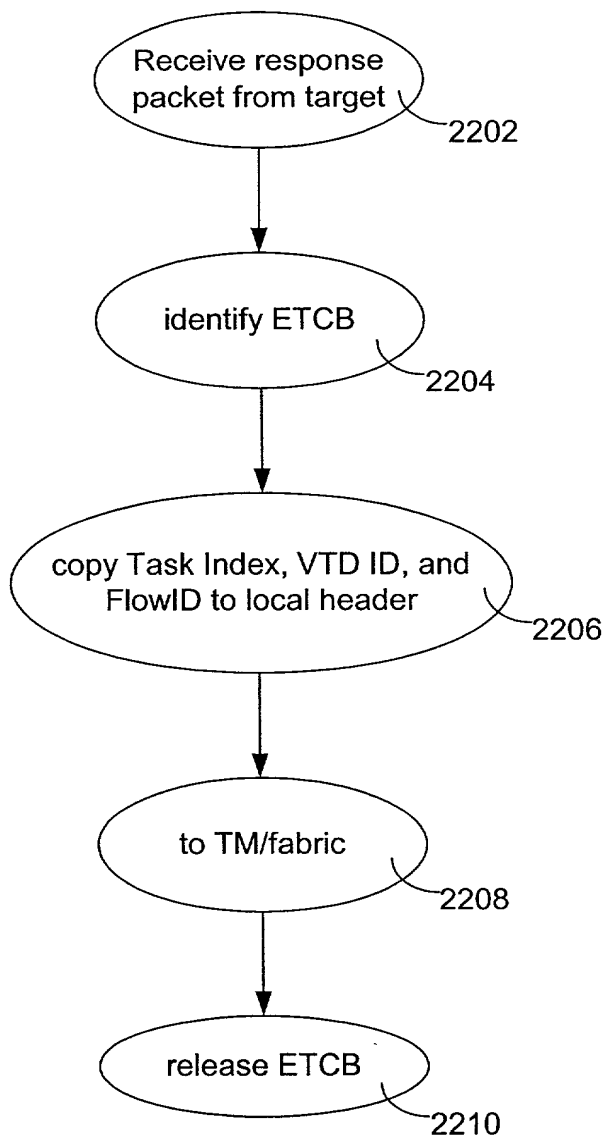


Fig. 22
(Virtualization - Ingress -
response pkt)

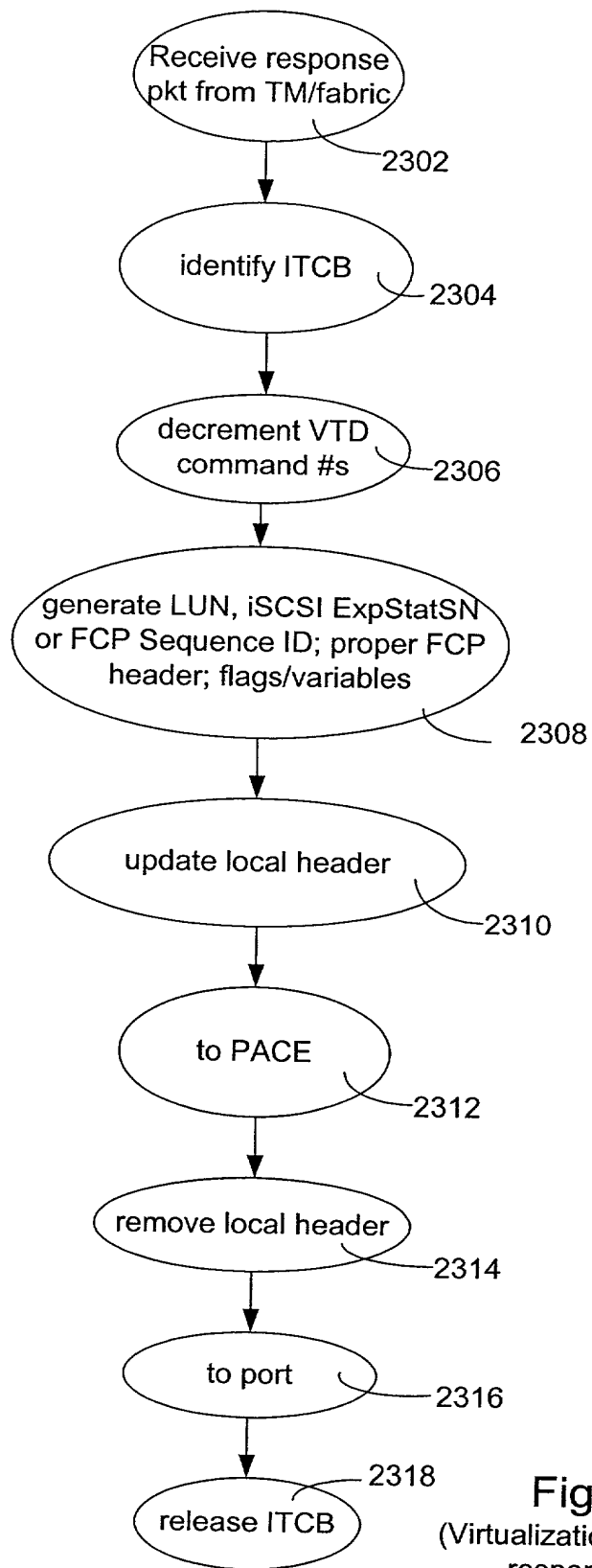


Fig. 23
(Virtualization - Egress -
response pkt)

Fig. 23a
 Egress - Response

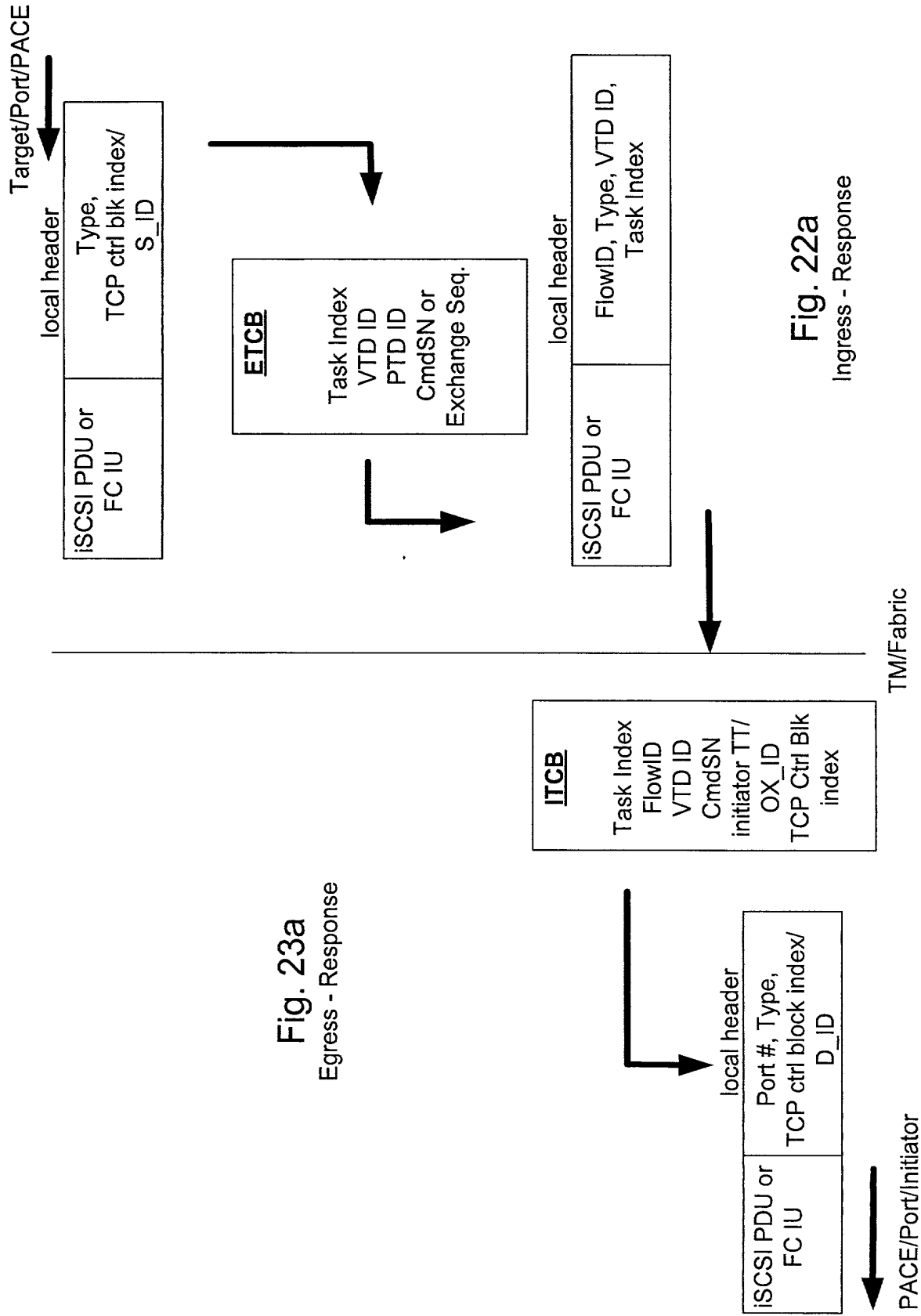


Fig. 22a
 Ingress - Response

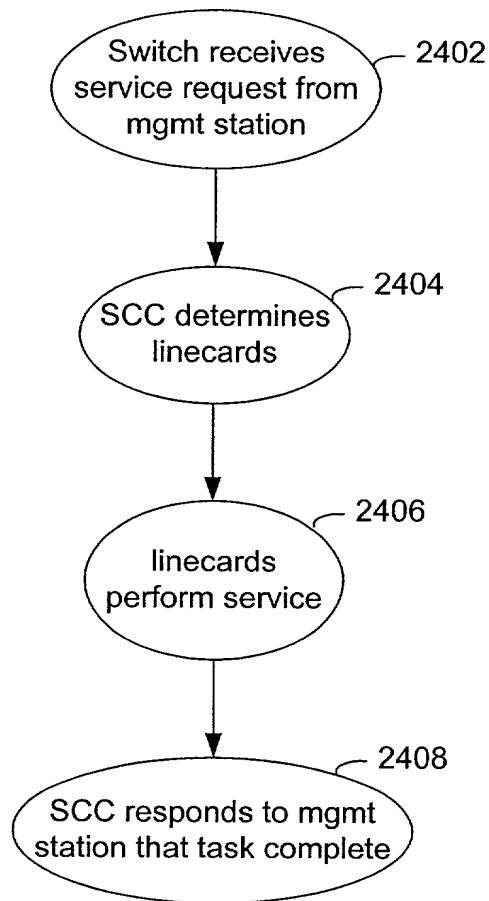


Fig.24

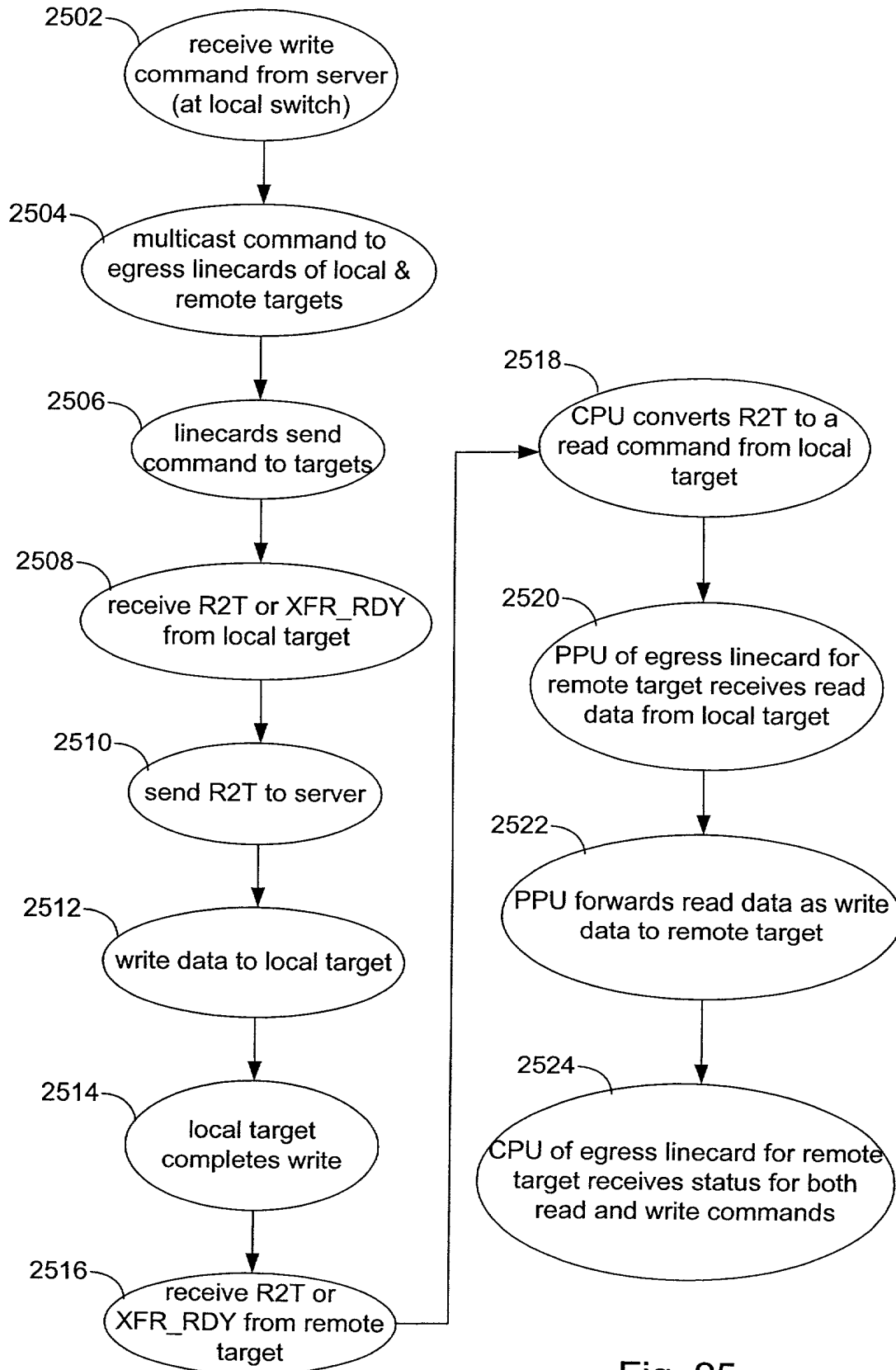


Fig. 25

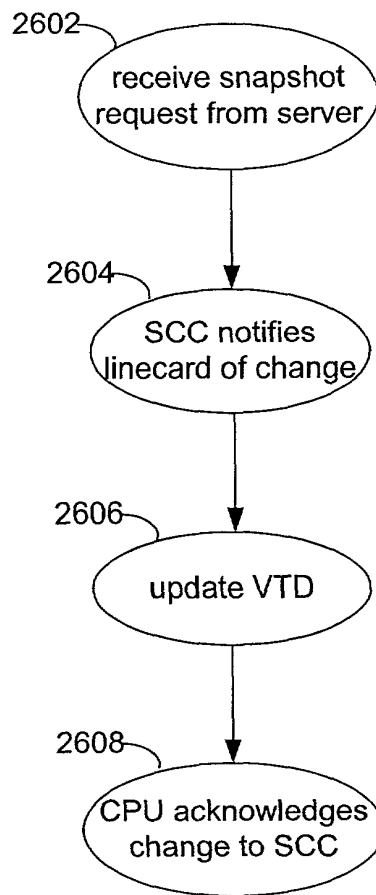
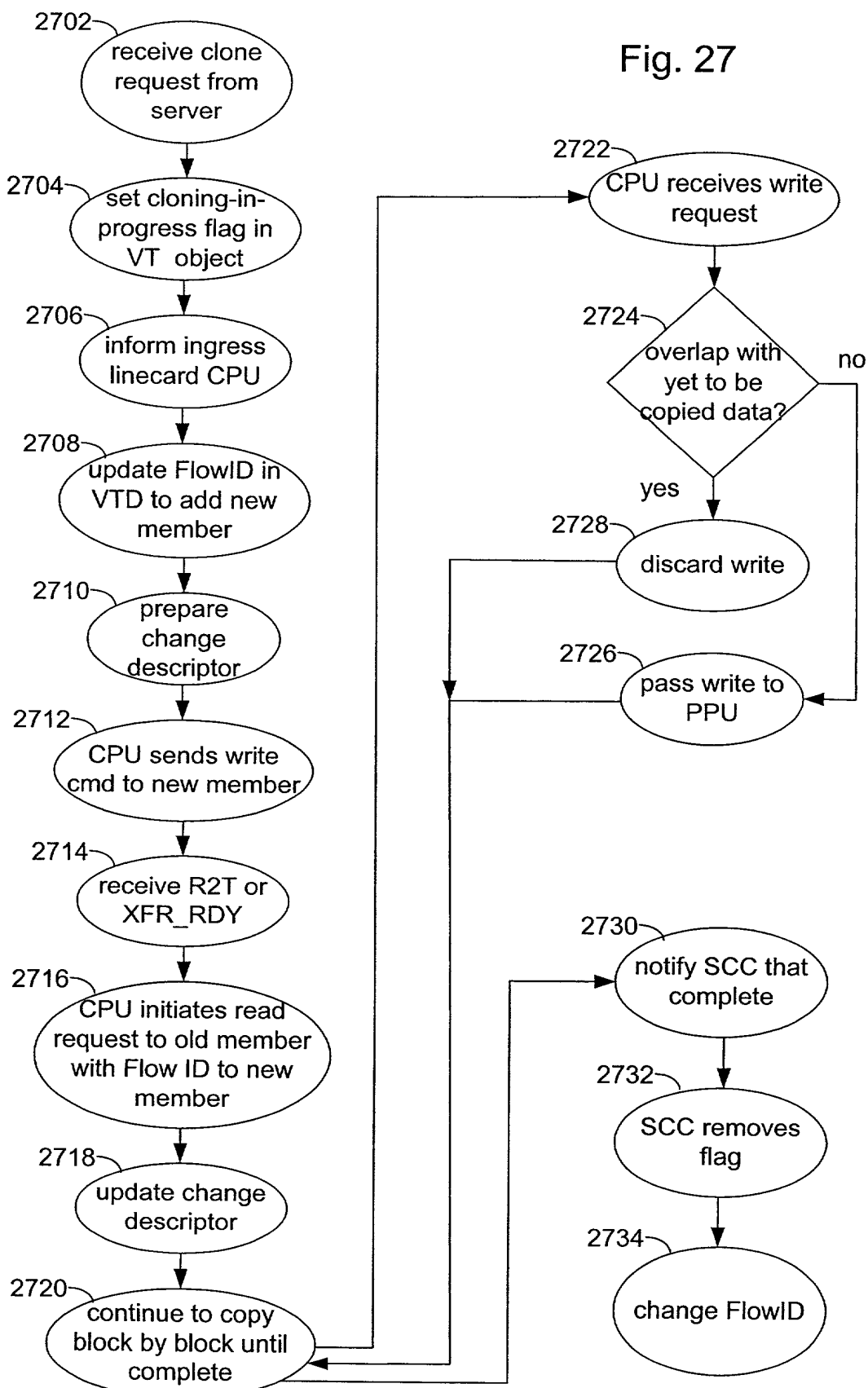


Fig. 26

Fig. 27



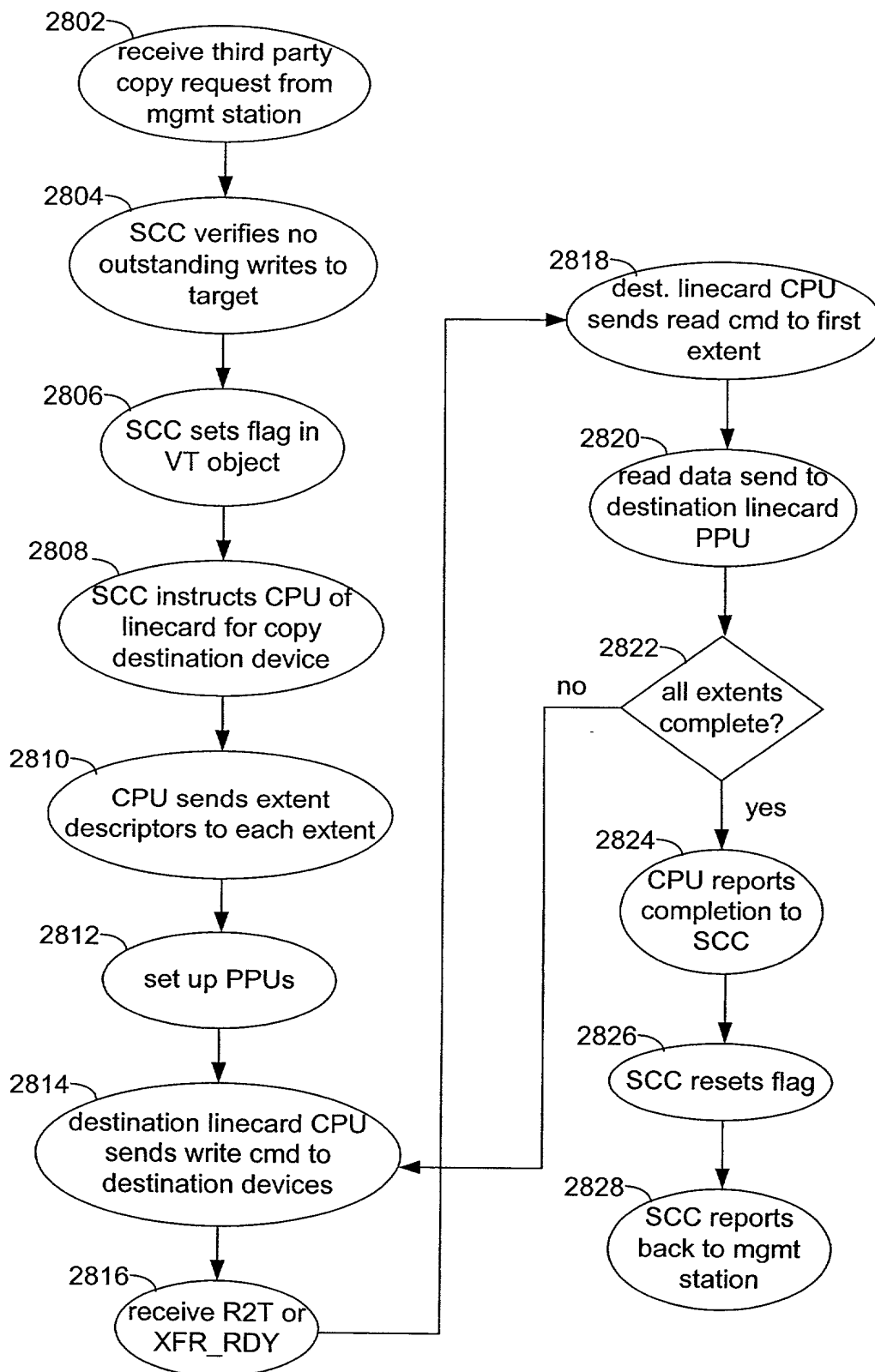


Fig. 28